

Applic. No. 10/534,681
Amdt. dated April 30, 2008
Reply to Office action of February 15, 2008

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Claim Amendments

This listing of the claims will replace all prior versions, and listings, of claims in the application:

Claims 1-10 (cancelled).

Claim 11 (previously presented): A method for positioning a component in a housing, the method comprising:

providing a housing with a first bore having a first diameter and a second bore having second diameter larger than the first diameter, and a step formed between the first bore and the second bore;

fixing a first component with a lower side in the first bore;

inserting a coining ring into the second bore up to the step;

inserting a die with a first reference mark marked thereon and a longitudinal bore formed therein into the second bore;

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inserting a probe with a second reference mark into the longitudinal bore until the probe contacts the first component;

establishing a reference measurement between the first and second reference marks representing a distance between the lower annular surface of the coining ring and the lower side of the first component;

compressing the coining ring with the die until the reference measurement corresponds to a predefined value for the distance; and

placing the component in the second bore at the distance.

Claim 12 (previously presented) : The method according to claim 11, wherein the housing is an injector housing.

Claim 13 (previously presented) : The method according to claim 12, which further comprises monitoring the reference measurement using a mechanical or optical measuring device during compression of the coining ring.

Claim 14 (previously presented) : The method according to claim 12, which further comprises recording the reference

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measurement using an electrical measuring device.

Claim 15 (previously presented): The method according to claim 12, wherein the component and the first component are inserted into a stepped bore of a housing of a fuel injector.

Claim 16 (previously presented): The method according to claim 12, wherein the first component is configured as a piezo-electric actuator.

Claim 17 (previously presented): The method according to claim 16, wherein the first component is configured as a base plate of the actuator.

Claim 18 (currently amended): An injector for fuel injection into an internal combustion engine of a motor vehicle, the injector comprising:

a housing having a first bore with a first diameter and a second bore with second diameter larger than the first diameter, and a step formed between said first bore and said second bore, said step having a step width and a step surface;

a first component fixedly disposed in said first bore;

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a second component disposed in said second bore, said second component having an end surface; and

a coining ring ~~disposed to rest on~~ having a contact surface in contact with said step surface, said coining ring having an annular width and a height stamped by a die to an exact predefined distance from said first component, said annular width being wider than said step width for creating defining an enlarged contact surface for an effective force between said second component and said step, said end surface of second component being in contact with and resting on said enlarged contact surface.

Claim 19 (currently amended): The injector according to Claim 18, wherein said enlarged contact surface is smooth.

Claim 20 (currently amended): The injector according to Claim 19, wherein said enlarged contact surface at least one of polished and flat.

Claim 21 (currently amended): The injector according to Claim 20, wherein said enlarged contact surface is perpendicular to an axis of said bores.

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Claim 22 (previously presented): The injector according to
Claim 18, wherein said second component is a stroke inverter.

Claim 23 (previously presented): The injector according to
Claim 18, wherein said second component is a nozzle body or an
activation element of a servo-valve.

Claim 24 (new): The injector according to Claim 18, wherein
said coining ring has the physical characteristics of a ring
that has been coined against said shoulder.